

# ELEVATION CERTIFICATE

**Important: Read the instructions on pages 1-9.**

OMB No. 1660-0008  
 Expiration Date: July 31, 2015

## SECTION A – PROPERTY INFORMATION

### FOR INSURANCE COMPANY USE

A1. Building Owner's Name		Policy Number:
A2. Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P.O. Route and Box No. 199 Misty Drive		Company NAIC Number:
City Woodland	State WA	ZIP Code 98674
A3. Property Description (Lot and Block Numbers, Tax Parcel Number, Legal Description, etc.) Lot 37, River Mist Subdivision (Vol. 14, Pg. 35)		
A4. Building Use (e.g., Residential, Non-Residential, Addition, Accessory, etc.) <u>Residential</u>		
A5. Latitude/Longitude: Lat. <u>45° 55' 08.68"</u> Long. <u>-122° 43' 33.33"</u>		Horizontal Datum: <input type="checkbox"/> NAD 1927 <input checked="" type="checkbox"/> NAD 1983
A6. Attach at least 2 photographs of the building if the Certificate is being used to obtain flood insurance.		
A7. Building Diagram Number <u>9</u>		
A8. For a building with a crawlspace or enclosure(s):		A9. For a building with an attached garage:
a) Square footage of crawlspace or enclosure(s) <u>1315</u> sq ft		a) Square footage of attached garage <u>431</u> sq ft
b) Number of permanent flood openings in the crawlspace or enclosure(s) within 1.0 foot above adjacent grade <u>2</u>		b) Number of permanent flood openings in the attached garage within 1.0 foot above adjacent grade <u>2</u>
c) Total net area of flood openings in A8.b <u>1315</u> sq in		c) Total net area of flood openings in A9.b <u>431</u> sq in
d) Engineered flood openings? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		d) Engineered flood openings? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

## SECTION B – FLOOD INSURANCE RATE MAP (FIRM) INFORMATION

B1. NFIP Community Name & Community Number Cowlitz County 530032		B2. County Name Cowlitz		B3. State WA	
B4. Map/Panel Number 0305	B5. Suffix D	B6. FIRM Index Date Dec. 20, 2001	B7. FIRM Panel Effective/Revised Date 09/29/89	B8. Flood Zone(s) A15	B9. Base Flood Elevation(s) (Zone AO, use base flood depth) 33.7'
B10. Indicate the source of the Base Flood Elevation (BFE) data or base flood depth entered in Item B9. <input type="checkbox"/> FIS Profile <input checked="" type="checkbox"/> FIRM <input type="checkbox"/> Community Determined <input type="checkbox"/> Other/Source: _____					
B11. Indicate elevation datum used for BFE in Item B9: <input checked="" type="checkbox"/> NGVD 1929 <input type="checkbox"/> NAVD 1988 <input type="checkbox"/> Other/Source: _____					
B12. Is the building located in a Coastal Barrier Resources System (CBRS) area or Otherwise Protected Area (OPA)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Designation Date: _____ <input type="checkbox"/> CBRS <input type="checkbox"/> OPA					

## SECTION C – BUILDING ELEVATION INFORMATION (SURVEY REQUIRED)

C1. Building elevations are based on:  Construction Drawings\*  Building Under Construction\*  Finished Construction  
 \*A new Elevation Certificate will be required when construction of the building is complete.

C2. Elevations – Zones A1–A30, AE, AH, A (with BFE), VE, V1–V30, V (with BFE), AR, AR/A, AR/AE, AR/A1–A30, AR/AH, AR/AO. Complete Items C2.a–h below according to the building diagram specified in Item A7. In Puerto Rico only, enter meters.  
 Benchmark Utilized: RM4 Vertical Datum: NGVD 1929  
 Indicate elevation datum used for the elevations in items a) through h) below.  NGVD 1929  NAVD 1988  Other/Source: \_\_\_\_\_  
 Datum used for building elevations must be the same as that used for the BFE.

Check the measurement used.

a) Top of bottom floor (including basement, crawlspace, or enclosure floor)	<u>34.7</u>	<input checked="" type="checkbox"/> feet <input type="checkbox"/> meters
b) Top of the next higher floor	<u>33.2</u>	<input checked="" type="checkbox"/> feet <input type="checkbox"/> meters
c) Bottom of the lowest horizontal structural member (V Zones only)	_____	<input type="checkbox"/> feet <input type="checkbox"/> meters
d) Attached garage (top of slab)	_____	<input type="checkbox"/> feet <input type="checkbox"/> meters
e) Lowest elevation of machinery or equipment servicing the building (Describe type of equipment and location in Comments)	_____	<input type="checkbox"/> feet <input type="checkbox"/> meters
f) Lowest adjacent (finished) grade next to building (LAG)	<u>33.1</u>	<input checked="" type="checkbox"/> feet <input type="checkbox"/> meters
g) Highest adjacent (finished) grade next to building (HAG)	<u>33.1</u>	<input checked="" type="checkbox"/> feet <input type="checkbox"/> meters
h) Lowest adjacent grade at lowest elevation of deck or stairs, including structural support	_____	<input type="checkbox"/> feet <input type="checkbox"/> meters

## SECTION D – SURVEYOR, ENGINEER, OR ARCHITECT CERTIFICATION

This certification is to be signed and sealed by a land surveyor, engineer, or architect authorized by law to certify elevation information. I certify that the information on this Certificate represents my best efforts to interpret the data available. I understand that any false statement may be punishable by fine or imprisonment under 18 U.S. Code, Section 1001:

Check here if comments are provided on back of form. Were latitude and longitude in Section A provided by a licensed land surveyor?  Yes  No  
 Check here if attachments.

Certifier's Name Howard S. Richardson	License Number 38485
Title PLS	Company Name Olson Engineering, Inc
Address 1111 Broadway	City Vancouver State WA ZIP Code 98660
Signature 	Date 12/11/14 Telephone 360-695-1385

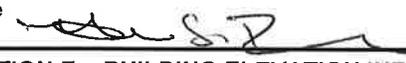


<b>IMPORTANT: In these spaces, copy the corresponding information from Section A.</b>	<b>FOR INSURANCE COMPANY USE</b>
Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P.O. Route and Box No. 199 Misty Drive	Policy Number:
City Woodland State WA ZIP Code 98674	Company NAIC Number:

**SECTION D – SURVEYOR, ENGINEER, OR ARCHITECT CERTIFICATION (CONTINUED)**

Copy both sides of this Elevation Certificate for (1) community official, (2) insurance agent/company, and (3) building owner.

Comments A5 was taken from GoogleEarth and field verified. C2a & b were calculated from information provided by the contractor. C2f & g are the existing grade on site.

Signature  Date 12/11/14

**SECTION E – BUILDING ELEVATION INFORMATION (SURVEY NOT REQUIRED) FOR ZONE AO AND ZONE A (WITHOUT BFE)**

For Zones AO and A (without BFE), complete Items E1–E5. If the Certificate is intended to support a LOMA or LOMR-F request, complete Sections A, B, and C. For Items E1–E4, use natural grade, if available. Check the measurement used. In Puerto Rico only, enter meters.

- E1. Provide elevation information for the following and check the appropriate boxes to show whether the elevation is above or below the highest adjacent grade (HAG) and the lowest adjacent grade (LAG).  
 a) Top of bottom floor (including basement, crawlspace, or enclosure) is \_\_\_\_\_  feet  meters  above or  below the HAG.  
 b) Top of bottom floor (including basement, crawlspace, or enclosure) is \_\_\_\_\_  feet  meters  above or  below the LAG.
- E2. For Building Diagrams 6–9 with permanent flood openings provided in Section A Items 8 and/or 9 (see pages 8–9 of Instructions), the next higher floor (elevation C2.b in the diagrams) of the building is \_\_\_\_\_  feet  meters  above or  below the HAG.
- E3. Attached garage (top of slab) is \_\_\_\_\_  feet  meters  above or  below the HAG.
- E4. Top of platform of machinery and/or equipment servicing the building is \_\_\_\_\_  feet  meters  above or  below the HAG.
- E5. Zone AO only: If no flood depth number is available, is the top of the bottom floor elevated in accordance with the community's floodplain management ordinance?  Yes  No  Unknown. The local official must certify this information in Section G.

**SECTION F – PROPERTY OWNER (OR OWNER'S REPRESENTATIVE) CERTIFICATION**

The property owner or owner's authorized representative who completes Sections A, B, and E for Zone A (without a FEMA-issued or community-issued BFE) or Zone AO must sign here. The statements in Sections A, B, and E are correct to the best of my knowledge.

Property Owner's or Owner's Authorized Representative's Name \_\_\_\_\_

Address \_\_\_\_\_ City \_\_\_\_\_ State \_\_\_\_\_ ZIP Code \_\_\_\_\_

Signature \_\_\_\_\_ Date \_\_\_\_\_ Telephone \_\_\_\_\_

Comments \_\_\_\_\_

Check here if attachments.

**SECTION G – COMMUNITY INFORMATION (OPTIONAL)**

The local official who is authorized by law or ordinance to administer the community's floodplain management ordinance can complete Sections A, B, C (or E), and G of this Elevation Certificate. Complete the applicable item(s) and sign below. Check the measurement used in Items G8–G10. In Puerto Rico only, enter meters.

- G1.  The information in Section C was taken from other documentation that has been signed and sealed by a licensed surveyor, engineer, or architect who is authorized by law to certify elevation information. (Indicate the source and date of the elevation data in the Comments area below.)
- G2.  A community official completed Section E for a building located in Zone A (without a FEMA-issued or community-issued BFE) or Zone AO.
- G3.  The following information (Items G4–G10) is provided for community floodplain management purposes.

G4. Permit Number _____	G5. Date Permit Issued _____	G6. Date Certificate Of Compliance/Occupancy Issued _____
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- G7. This permit has been issued for:  New Construction  Substantial Improvement
- G8. Elevation of as-built lowest floor (including basement) of the building: \_\_\_\_\_  feet  meters Datum \_\_\_\_\_
- G9. BFE or (in Zone AO) depth of flooding at the building site: \_\_\_\_\_  feet  meters Datum \_\_\_\_\_
- G10. Community's design flood elevation: \_\_\_\_\_  feet  meters Datum \_\_\_\_\_

Local Official's Name \_\_\_\_\_ Title \_\_\_\_\_

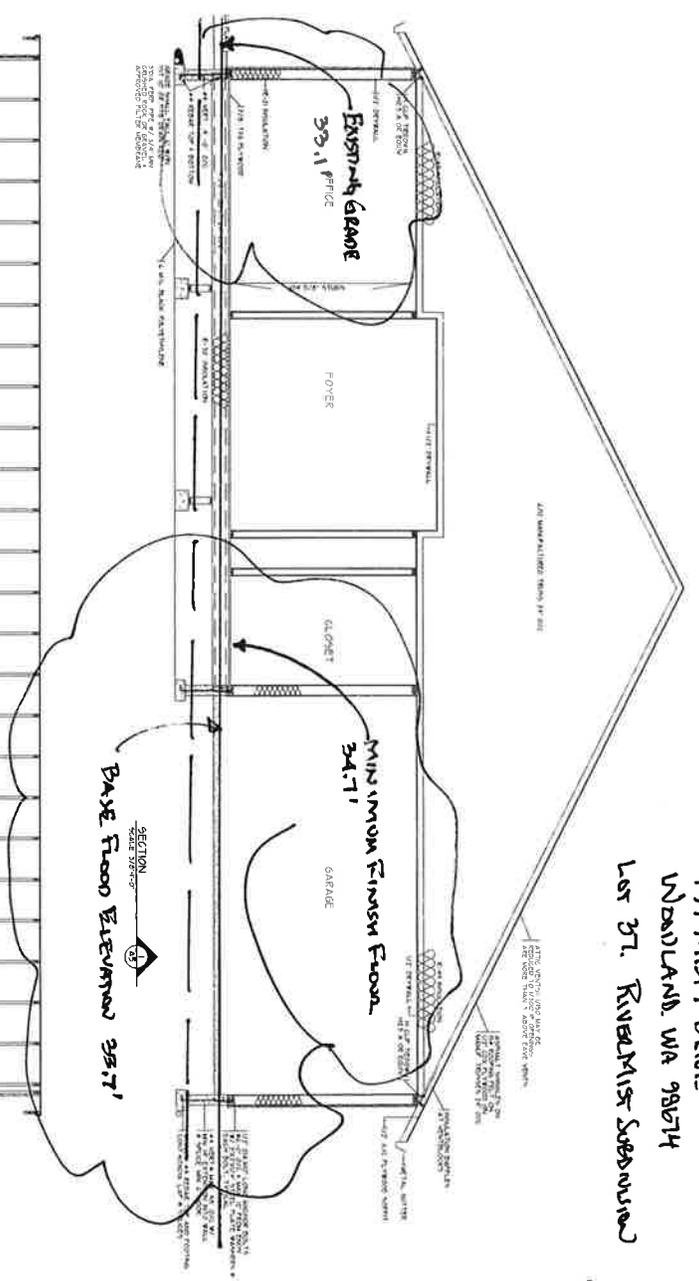
Community Name \_\_\_\_\_ Telephone \_\_\_\_\_

Signature \_\_\_\_\_ Date \_\_\_\_\_

Comments \_\_\_\_\_

Check here if attachments.

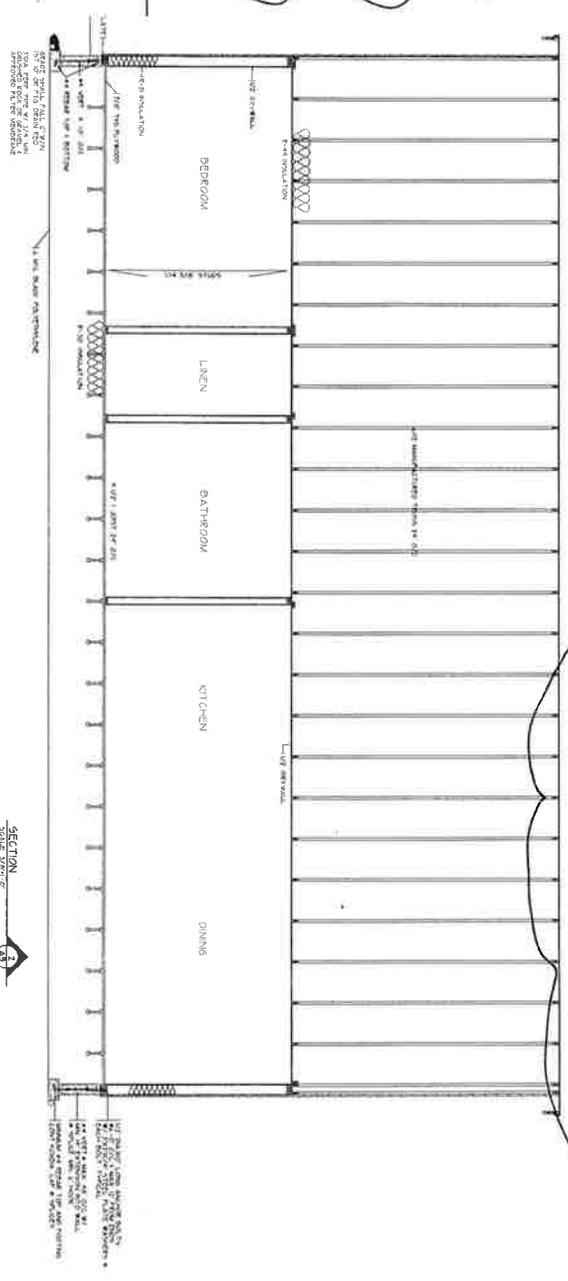
199 MISTY DEWE  
 WOODLAND, WA 98074  
 LOT 37, RIVERMIST SUBDIVISION



THE LIVING AREA HAS A CRAWLSPACE AREA OF 1315 SQUARE FEET WHICH REQUIRES A MINIMUM OF 1315 SQUARE INCHES OF VENTING LOCATED WITHIN 1' OF THE OUTSIDE FINISH GRADE. THE GARAGE AREA IS 431 SQUARE FEET WHICH WILL REQUIRE A MINIMUM OF 431 SQUARE INCHES LOCATED WITHIN 1' OF THE OUTSIDE FINISH GRADE. BOTH AREAS REQUIRE A MINIMUM OF 2 VENTS PER AREA ON DIFFERENT WALLS.

I CERTIFY THAT THE BASE FLOOD ELEVATION AS DERIVED FROM THE FIRM FOR COWLITZ COUNTY (S30032.0305D REVISED SEPTEMBER 29, 1989) IS AN ELEVATION OF 33.7' AT 199 MISTY DEWE AND THAT THE MINIMUM FINISH FLOOR ELEVATION ON THESE PLANS AS REQUIRED PER CITY OF WOODLAND CODE 14.40.05 (B) (1) (a) WILL BE 34.5'. THESE ELEVATIONS ARE BASED ON THE ELEVATION OF BM4 (35.08' NGVD 1929 ADJUSTED 1947) AS SHOWN ON THE PLAN. THIS ELEVATION APPLIES ONLY TO THE ELEVATION SHOWN HEREON.

HOWARD S. RICHARDSON, ELS 38885



SECTION 2 SCALE 1/8"=1'-0"

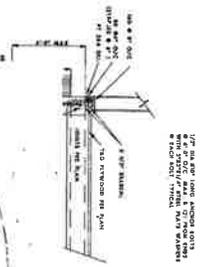
330 4th Street Ridgeville, GA Phone: 404-438-3333 Fax: 404-438-3334 Email: Design@hnsr.com Web: Design@hnsr.com

TUSCANY HOMES



PLAN # 1803

AS



**VENTILATION CALCULATIONS**

THE FOLLOWING CALCULATIONS ARE BASED ON THE ASSUMPTIONS LISTED BELOW. THE DESIGNER ASSUMES THAT THE VENTILATION SYSTEM IS INSTALLED AND MAINTAINED AS SHOWN ON THESE PLANS. THE DESIGNER IS NOT RESPONSIBLE FOR THE ACCURACY OF THESE CALCULATIONS.

ASSUMPTIONS:

- 1. THE HOUSE IS A SINGLE-FAMILY RESIDENCE.
- 2. THE HOUSE IS OCCUPIED BY TWO PEOPLE.
- 3. THE HOUSE IS HEATED BY GAS.
- 4. THE HOUSE IS VENTILATED BY MEANS OF MECHANICAL MEANS.
- 5. THE HOUSE IS VENTILATED BY MEANS OF MECHANICAL MEANS.
- 6. THE HOUSE IS VENTILATED BY MEANS OF MECHANICAL MEANS.
- 7. THE HOUSE IS VENTILATED BY MEANS OF MECHANICAL MEANS.
- 8. THE HOUSE IS VENTILATED BY MEANS OF MECHANICAL MEANS.
- 9. THE HOUSE IS VENTILATED BY MEANS OF MECHANICAL MEANS.
- 10. THE HOUSE IS VENTILATED BY MEANS OF MECHANICAL MEANS.

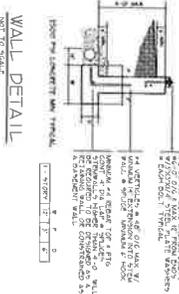
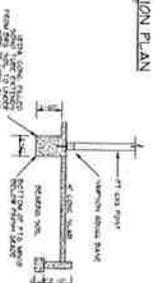
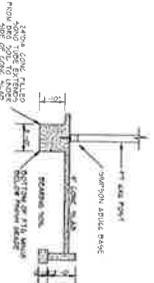
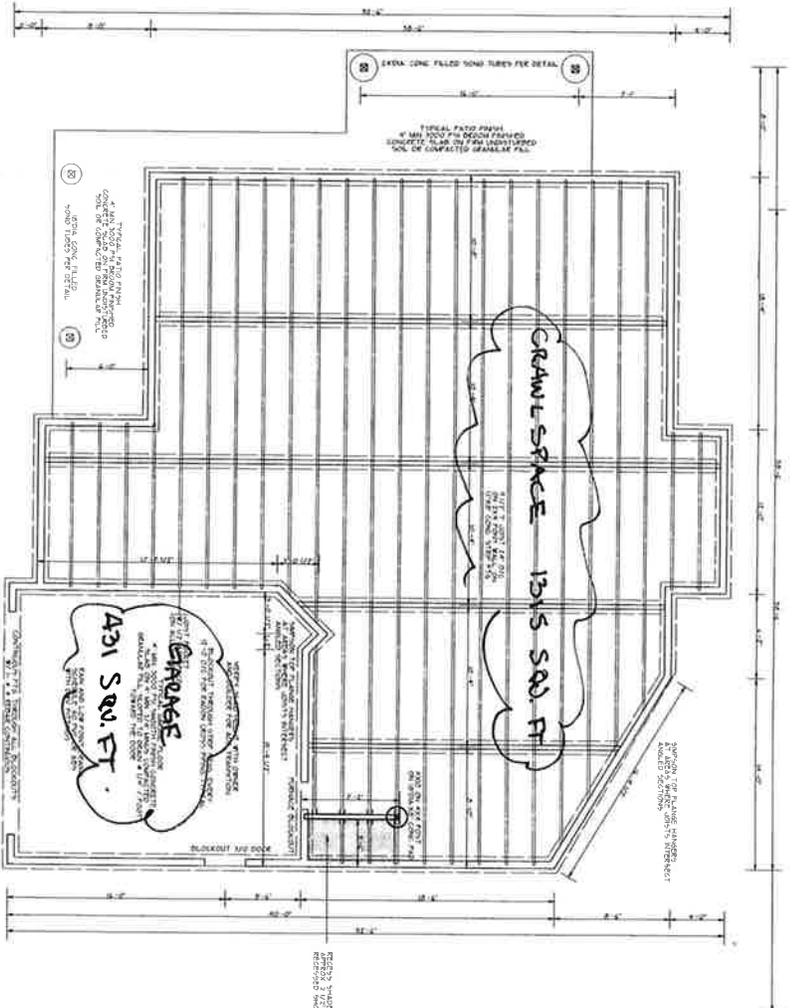
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HOWARD S. RICHARDSON PLS 38485

Method B  
Floor Diaphragm w/rafter Joists  
created by user PFM-50  
06/23/18 11:11 AM

199 MISTY DRIVE  
WOODLAND, WA 98674  
LOT 37. RIVER MIST SUBDIVISION



A3

PLAN # 1803

TUSCANY HOMES

1200 NW 92nd Street, Ridgefield, WA, PH:509-952-5500 Email: Design@tuscanyhomes.com Web: Design@tuscany.com

